

OLED HAVING IMPROVED LIGHT EXTRACTION EFFICIENCY

ABSTRACT

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An OLED having top and bottom electrodes with an organic light-emitting layer sandwiched between these electrodes. The bottom electrode layer includes a planar conducting layer having a plurality of protrusions thereon. The light-emitting layer covers the bottom electrode with a first surface in contact with the first electrode layer and its second surface having raised areas over the protrusions. The top electrode layer includes a layer of conductive material in contact with the second surface. One of the top and bottom electrodes is transparent to light generated in the light-emitting layer. The size and spacing of the protrusions is chosen to provide increased light output from the transparent one of the top and bottom electrodes relative to the light output that would be obtained in the absence of the protrusions.

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